

DOCKET NO. : ISIS-5027

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Stanley T. Crooke

Serial No.: Not Yet Assigned

Group Art Unit: Not yet
Assigned

Filed: herewith

Examiner: Not Yet Assigned

For: Oligoribonucleotides and Ribonucleotides for Cleaving RNA

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney and/or Agents for Applicant(s), hereby appoints the following:

Richard E. Kurtz	Registration No. 19,263	Michael J. Bonella	Registration No. 41,628
Dale M. Heist	Registration No. 28,425	Harold H. Fullmer	Registration No. 42,560
Gary H. Levin	Registration No. 28,734	John E. McGlynn	Registration No. 42,863
Steven J. Rocci	Registration No. 30,489	Jonathan M. Waldman	Registration No. 40,861
Dianne B. Elderkin	Registration No. 28,598	Chad Ziegler	Registration No. 44,273
John P. Donohue, Jr.	Registration No. 29,916	Gwilym J.O. Attwell	Registration No. 45,449
Henrik D. Parker	Registration No. 31,863	David N. Farsiou	Registration No. 44,104
Suzanne E. Miller	Registration No. 32,279	Steven H. Meyer	Registration No. 37,189
Lynn B. Morreale	Registration No. 32,842	Paul B. Milectic	Registration No. 46,261
Mark DeLuca	Registration No. 33,229	Joseph R. Condo	Registration No. 42,431
Joseph Lucci	Registration No. 33,307	Michael K. Jones	Registration No. 41,100
Michael P. Dunnam	Registration No. 32,611	Frank T. Carroll	Registration No. 42,392
Michael D. Stein	Registration No. 34,734	Thomas E. Watson	Registration No. 43,243
Albert J. Marcellino	Registration No. 34,664	Eric H. Vance	Registration No. 47,151
David R. Bailey	Registration No. 35,057	Peter M. Ullman	Registration No. 43,963
Doreen Yatko Trujillo	Registration No. 35,719	Richard B. LeBlanc	Registration No. 39,495
Barbara L. Mullin	Registration No. 38,250	Joseph D. Rossi	Registration No. 47,038
Michael P. Straher	Registration No. 38,325	Rosalcen P. Morris-Oskanian	Registration No. 47,321
Kevin M. Flannery	Registration No. 35,871	George J. Awad	Registration No. 46,528
David A. Cherry	Registration No. 35,099	Steven D. Maslowski	Registration No. 46,905
Lynn A. Malinoski	Registration No. 38,788	S. Maurice Valla	Registration No. 43,966
Steven B. Samuels	Registration No. 37,711	Emma R. Dailey	Registration No. 48,491
Janet E. Reed	Registration No. 36,252	Vincent J. Roccia	Registration No. 43,887
Jeffrey J. King	Registration No. 38,515	Robin S. Quartin	Registration No. 45,028
Robert B. Washburn	Registration No. 16,574	Patrick J. Farley	Registration No. 42,524
Norman L. Norris	Registration No. 24,196	Gregory L. Hillyer	Registration No. 44,154
Michael J. Swope	Registration No. 38,041	Stephen C. Timmins	Registration No. 48,481

DOCKET NO. : ISIS-5027


- 2 -

PATENT

Erich M. Falke	Registration No. 49,049	Richard D. Watkins	Registration No. P50,993
Jane E. Inglese	Registration No. 48,444	Wendy A. Choi	Registration No. 36,697
Susan C. Murphy	Registration No. 46,221	Felicity E. Groth	Registration No. 47,042
Raymond N. Scott, Jr.	Registration No. 48,666	Christine A. Goddard	Registration No. 46,731
David L. Marcus	Registration No. 46,897	Andrew J. Hagerty	Registration No. 44,141
Lawrence A. Aaronson	Registration No. 38,369	Scott E. Scioli	Registration No. 47,930
John A. Harrelson	Registration No. 42,637		
Sharon Fenick	Registration No. 45,269		
Daniel D. Biesterveld	Registration No. 45,898		
Phillip A. Singer	Registration No. 40,176		

his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN LLP at the above address.

Date: 20 FEBRUARY 2002


 Paul K. Legaard
 Registration No. 38,534

Woodcock Washburn LLP
 One Liberty Place - 46th Floor
 Philadelphia PA 19103
 Telephone: (215) 568-3100
 Facsimile: (215) 568-3439

DOCKET NO.: ISIS-2484

PATENT

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA** the specification of which:

() is attached hereto. .

(X) was filed on June 6, 1997 as Application Serial No. 08/870,608 and was amended on August 26, 1997.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending)
08/659,440	June 6, 1996	Pending
_____	_____	_____
_____	_____	_____

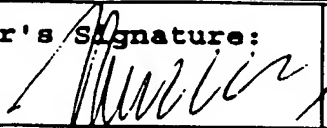
I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: **John W. Caldwell and Paul K. Legaard**, Registration Nos. 28,937 and 38,534 of the firm of **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS**, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, and **Herb Boswell and Laurel Bernstein**, Registration Nos. 27,311 and 37,280, of **ISIS Pharmaceuticals**, 2292 Faraday Avenue, Carlsbad, California 92008.

Address all telephone calls and correspondence to:

Paul K. Legaard
WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS
 One Liberty Place - 46th Floor
 Philadelphia, PA 19103
 Telephone No. 215-568-3100.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Full Name: Stanley T. Crooke	Inventor's Signature: 	Date: 11/11/97
	Residence: Carlsbad, California 92009	Citizenship: United States	
	Post Office Address: 3211 Piragua Street, Carlsbad, California 92009		
2	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address:		
3	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address:		
4	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address:		
5	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address:		